

# ***Program Management Review***

**15 Oct 2007**

**4QFY07**

**Dr. William F. Denig, Chief  
Solar & Terrestrial Physics Division**

**NOAA/NESDIS/NGDC**

**303 497-6323**

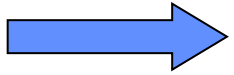
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# OUTLINE

## Solar & Terrestrial Physics Division



### **STP Program Overview**

### **Milestones & Performance Measures**

### **Upcoming Events**

### **Accomplishments**

### **Special Interest Items**

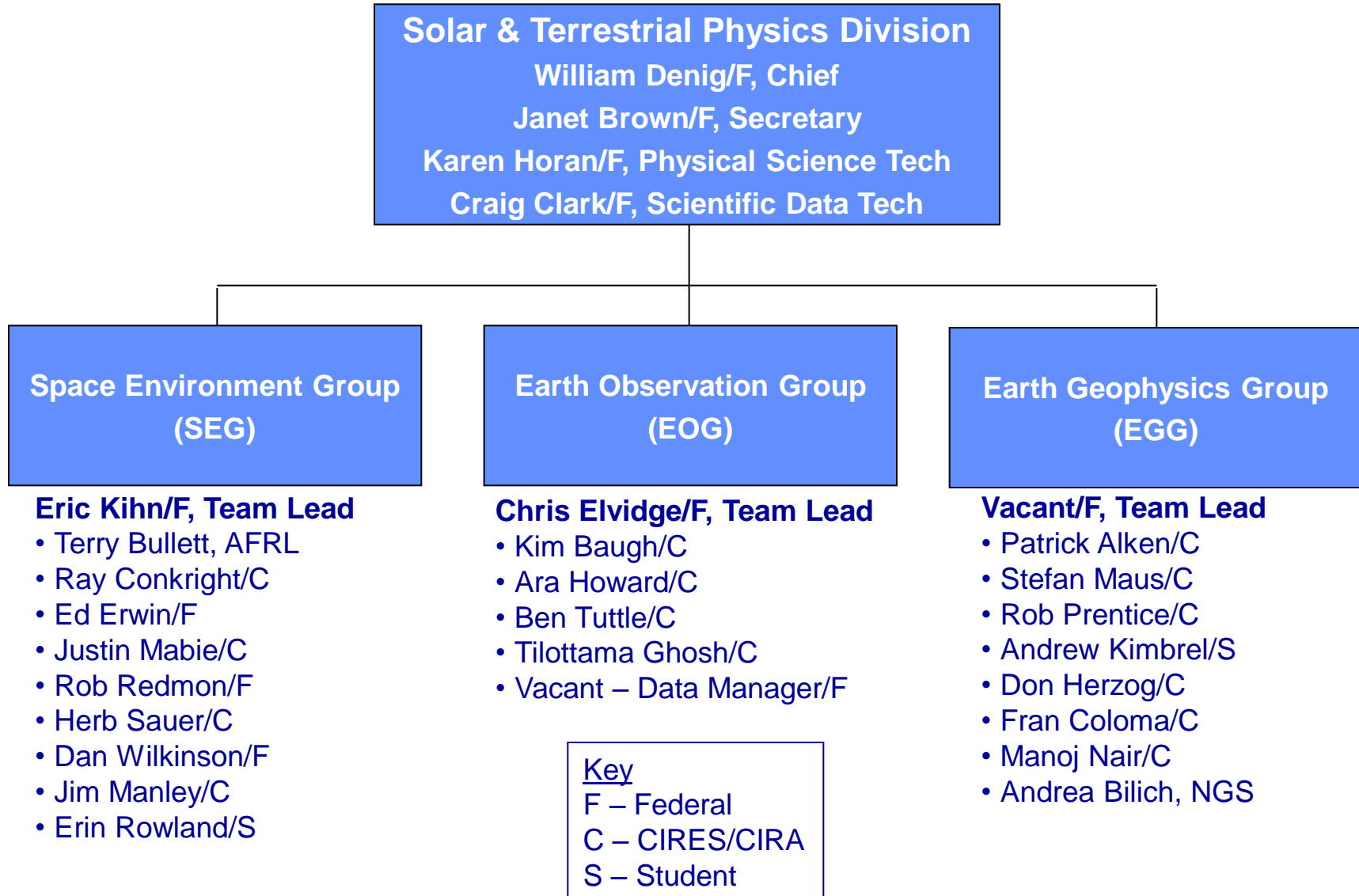
### **Issues**

### **STP – A Year in Review**



# Personnel

## STP Program Overview





# Personnel Changes

## STP Program Overview



- **Gains**

- Manoj Nair (EGG) – CIRES PRA
- Tilottama Ghosh (EOG) – CIRES PRA
- Andrea Bilich (EGG) – NGS GPS Physicist (Fed)

- **Losses**

- Terry Bullett (SEG) – AFRL position re-alignment; Status: *TBD*

- **Vacancies**

- SEG Space Physicist – Currently on hold; CIRES PRA
- STP Real-time Data Manager – Currently on hold; CIRES PRA
- EOG Hayes Replacement – Deferred

- **Inbound**

- Non Real-time Data Manager (ZP-1301) – David Fischman: *TBD*

- **Pending**

- NGS CORS Technician – Pending – NGS action (FY08 or later)



# MOUs / MOAs Status

## STP Program Overview



### STATUS

| Scope             | Team | Type | Partner | NOAA Legal | DOC Legal | NGDC Signed | Partner Signed | Start     | End       | Status |  |
|-------------------|------|------|---------|------------|-----------|-------------|----------------|-----------|-----------|--------|--|
| DMSP Archive      | SEG  | MOA  | DMSP    | X          | X         | X           | X              | 30-Mar-07 | 30-Sep-09 | G      | In place - nothing to report                 |
| SWx Climatology   | SEG  | MOU  | AFCCC   | X          | X         | X           | X              | 27-May-04 | 01-Oct-14 | G      | In place - nothing to report                 |
| Ionospheric Data  | SEG  | MOU  | AFWA    | X          | X         | X           | X              | 21-Aug-06 | 21-Aug-11 | G      | In place - nothing to report                 |
| NASIC             | EOG  | MOU  | NASIC   | X          | X         | X           | X              | 09-Mar-06 | 01-Jan-11 | G      | In place - nothing to report                 |
| World Mag Model   | EGG  | MOU  | NGA     |            |           |             |                |           | 30-Sep-12 | Y      | <i>Economy Act considerations</i>            |
| CORS Support      | EGG  | n/a  | NGS     | n/a        | n/a       |             |                |           | 30-Sep-08 | Y      | <i>In NGS coordination</i>                   |
| Ionosonde Install | SEG  | MOU  | USAFA   |            |           |             |                |           |           | Y      | <i>Initial draft - NEXION considerations</i> |
| Ionosonde Site    | SEG  | MOU  | USGS    |            |           |             |                |           |           | Y      | <i>Initial draft - NEXION considerations</i> |



# CDMP FY07 Status

## STP Program Overview



| Subject                              | FY07 - Unfunded | FY07 - Continuing | POC         | Contractor (\$K) | NGDC (\$K) | % Expended<br>(as of 30sep07) |
|--------------------------------------|-----------------|-------------------|-------------|------------------|------------|-------------------------------|
| Heat capacity mapping mission (I6)   |                 | X                 | Elvidge     | 26.0             | 2.6        | TBD                           |
| DMSP film scanning (L3)              |                 | X                 | Elvidge     | 560.0            | 56.0       | 100.9%                        |
| DMSP P/L activation messages         | X               |                   | Elvidge     | -                | -          |                               |
| Historical solar spectral data (L16) |                 | X                 | vice Coffey | 50.0             | 5.0        | 31.8%                         |
| Cosmic rays - Forbush archives       | X               |                   | vice Coffey | -                | -          |                               |
| Historical solar observations (L18)  |                 | X                 | vice Coffey | 87.0             | 8.7        | 100.9%                        |
| Historical ionosonde records (L7)    |                 | X                 | Redmon      | 71.0             | 7.1        | 86.4%                         |

### FY08 distributions pending CDMP funding (per Tom Ross)

- Fund new starts if funding levels restored
- Else maintain current level of effort if possible

**The CDMP DMSP Nighttime Lights project will be a featured video in the contractor's 2007 annual report**



# FY08 Financial (Planning)

## STP Division Overview



| FTEs                           |         |         |         |           |                    |
|--------------------------------|---------|---------|---------|-----------|--------------------|
|                                | STP     | EGG     | EOG     | SEG       | Sum                |
| Federal FTEs                   | 3.85    | 0.40    | 1.40    | 4.35      | 10.00              |
| CIRES FTEs                     |         | 5.65    | 3.25    | 3.18      | 12.08              |
| Contractor FTEs                |         | 0.50    |         |           | 0.50               |
| <b>Sub-Total</b>               | 3.85    | 6.55    | 4.65    | 7.53      | 22.58              |
| <b>Total Program FTEs:</b>     |         |         |         |           | <b>22.58</b>       |
| Income                         |         |         |         |           |                    |
|                                | STP     | EGG     | EOG     | SEG       | Sum                |
| Carryover (from FY07)          |         |         |         | 170,403   | 170,403            |
| Base Fund Allocation           |         |         |         |           | 0                  |
| Rent Initiative                |         |         |         |           | 0                  |
| Base Travel Allotment          | 6,182   | 0       | 5,400   | 8,988     | 20,570             |
| Other NOAA                     |         | 264,756 | 110,000 | 277,550   | 652,306            |
| non-NOAA                       |         | 626,000 | 550,000 | 170,000   | 1,346,000          |
| <b>Sub-total:</b>              | 6,182   | 890,756 | 665,400 | 626,941   | 2,189,278          |
| <b>Total Program Income:</b>   |         |         |         |           | <b>\$2,189,278</b> |
| Expenses                       |         |         |         |           |                    |
|                                | STP     | EGG     | EOG     | SEG       | Sum                |
| OD Overhead                    | 0       | 62,600  | 55,000  | 17,000    | 134,600            |
| Federal Salaries               | 481,697 | 74,358  | 333,102 | 794,067   | 1,683,224          |
| CIRES Salaries                 | 0       | 449,264 | 340,115 | 341,570   | 1,130,948          |
| Other CIRES                    | 0       | 39,247  | 4,700   | 17,817    | 61,764             |
| Contracts                      | 250     | 91,050  | 0       | 246,000   | 337,300            |
| Approved Fed Travel (Base)     | 6,182   | 0       | 5,400   | 8,988     | 20,570             |
| Approved Fed Travel (Customer) | 1,490   | 1,034   | 11,800  | 22,012    | 36,335             |
| Assorted Costs                 | 0       | 0       | 12,100  | 4,403     | 16,503             |
| Publications                   | 0       | 0       | 5,000   | 3,000     | 8,000              |
| <b>Sub-total:</b>              | 489,618 | 717,552 | 767,217 | 1,454,856 | 3,429,244          |
| <b>Total Program Expenses:</b> |         |         |         |           | <b>\$3,429,244</b> |

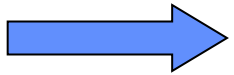


# **OUTLINE**

## **Solar & Terrestrial Physics Division**



### **STP Program Overview**



### **Milestones & Performance Measures**

### **Upcoming Events**

### **Accomplishments**

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### **Issues**

### **STP – A Year in Review**





# FY07 Milestones

## Milestones & Performance Measures



|       | PPBES Program                 | STP FY07 Milestones   | Status | Planned Completion Date | Actual Completion Date | Responsible Person |
|-------|-------------------------------|---|--------|-------------------------|------------------------|--------------------|
| AOP → | Space Weather                 | Incorporate NGDC Virtual Radiation Belt Observatory into NASA Living With a Star (LWS) program for initial operating capability   | C      | (Q2) 3/31/2007          | (Q2) 3/31/2007         | Kihn               |
| AOP → | Space Weather                 | Demonstrate initial operating capability (IOC) for acquiring, processing and disseminating near real-time total electron content data to NWS/SWPC for US-TEC model        | C      | (Q2) 3/31/2007          | (Q2) 3/31/2007         | McLean             |
|       | Marine Transportation Systems | Generate 1st global grid of population numbers in poverty estimated from satellite imagery  | C      | (Q2) 3/31/2007          | (Q2) 3/31/2007         | Elvidge            |
|       | Space Weather                 | Develop database management tools with SPIDR for the NGDC geomagnetic archive   | Y      | (Q3) 6/30/2007          |                        | Kihn               |
|       | Space Weather                 | Develop & release next upgrade (Version 4.0) of the Space Physics Interactive Data Resource (SPIDR)   | C      | (Q3) 6/30/2007          | (Q3) 6/30/2007         | Kihn               |
| AOP → | Space Weather                 | Replicate operational GOES-13 Space Environment Monitor (SEM) relational database at NGDC - <i>Deferred</i>   | C      | (Q4) 9/30/2007          | (Q3) 6/30/2007         | Wilkinson          |
|       | Marine Transportation Systems | Produce an updated degree-720 crustal field model incorporating newly released marine & aeromagnetic data to improve Electronic Navigation Chart (ENC) nav models         | C      | (Q3) 6/30/2007          | (Q2) 3/31/2007         | Maus               |
|       | Marine Transportation Systems | Implement near real-time visible and thermal global mosaic generation and online access system for nighttime DMSP Operational Linescan System (OLS)                       | C      | (Q3) 6/30/2007          | (Q3) 6/30/2007         | Elvidge            |
| AOP → | Space Weather                 | Integrate Mirrion real-time ionospheric data access system with the Space Physics Interactive Data Resource (SPIDR) - <i>Deferred</i>                                     | G      | (Q1) 12/31/2007         |                        | Redmon             |
|       | Marine Transportation Systems | Implement at CORS-West the collection of GNSS data for essentially all active CORS on an hourly or daily basis & in a manner that is effectively independent of CORS-East | C      | (Q4) 9/30/2007          | (Q3) 6/14/2007         | Prentice           |
|       | Marine Transportation Systems | Implement at CORS-West the OPUS utility to provide an automated GNSS data processing capability to Web clients in a manner independent of CORS-East - <i>Deferred</i>     | G      | (Q1) 12/31/2007         |                        | Coloma             |

AOP → AOP milestone

STP PMR – 15 Oct 2007

**C** Complete  
**G** On-track

**Y** Watch Item  
**R** Issue



# NGDG Milestone

## Implement OPUS at CORS-West



**Milestone** – Implement at CORS-West the OPUS utility to provide an automated GNSS data processing capability to Web clients in a manner independent of CORS-East.

**Background** – NGS operates the On-line Positioning User Service (OPUS) as a means to provide GPS users easier access to the National Spatial Reference System (NSRS). OPUS uses the Continuously Operating Reference Stations (CORS) system to provide cm-level, GPS-referenced geo-location. NGDC will implement OPUS at the Boulder CORS-West facility.

**Status** – FY07 milestone was deferred pending receipt of NGS hardware. Hardware has been received at NGDC and ISD has been requested to install the Blade Servers within available racks.

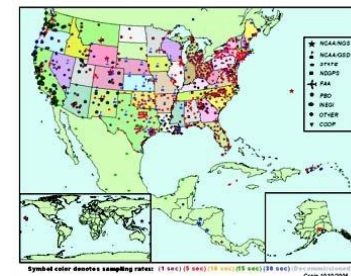
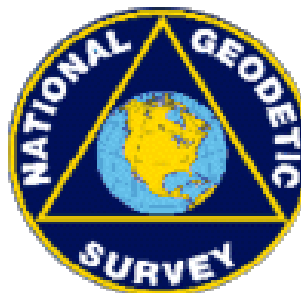
**Completion Date: (deferred)**

Planned: (FY08-Q1) 12/30/2007

Actual: Pending

**Significance** – Dual-site implementation of OPUS is part of COOP planning.

STP PMR – 15 Oct 2007



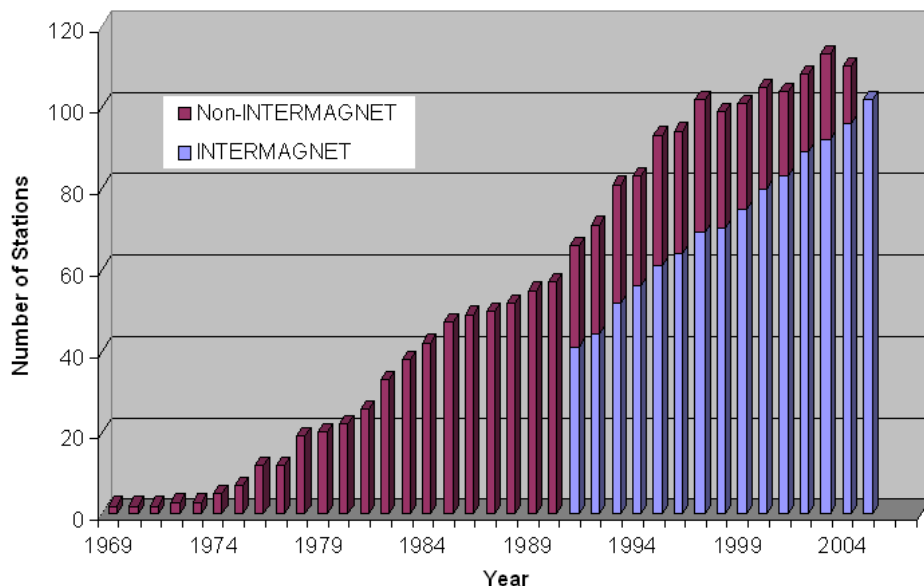


# NGDG Milestone SPIDR Geomagnetic Tools



**Milestone** – Develop database management tools with SPIDR for the NGDC geomagnetic archive.

Digital Magnetic Observatories



**Significance:** NGDC maintains significant magnetic observatory holdings within the WDC-SEG. The WDC can best serve its users by providing access to the magnetic data through a convenient and straightforward portal. Certain shortcomings in SPIDR are being addressed.

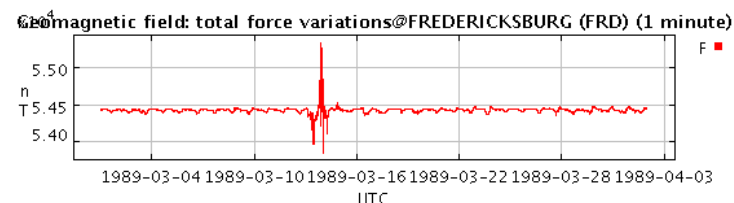
**Background** – The Space Physics Interactive Data Resource (SPIDR) includes magnetic observatory data from 581 stations for the period 1813 to present. Don Herzog continues to assist SPIDR developers in revising the geomagnetic pages to better serve the user communities.

**Status** – Don recently met with the SPIDR development team (Mikhail Zhizhin et al.) to provide advice and spur improvements.

**Completion Date: (delayed)**

Planned: (Q3) 06/30/2007

Actual: *Pending*





# FY08 Milestones (Proposed)

## Milestone & Performance Measures



| PPBES Program                 | STP FY08 Milestones   | Status   | Planned Completion Date | Actual Completion Date | Responsible Person |
|-------------------------------|---|----------|-------------------------|------------------------|--------------------|
| Marine Transportation Systems | Improve crustal magnetic field model from degree 100 to degree 120 by minimizing the impact of spurious magnetic anomalies in satellite magnetic datasets.              | <b>G</b> | (Q1) 12/30/2007         |                        | Maus               |
| Marine Transportation Systems | Produce radiance-calibrated, cloud-free, nighttime-lights composites for 2005-2006 using Defense Meteorological Satellite Program (DMSP) earth-imagery data.            | <b>G</b> | (Q1) 12/31/2007         |                        | Elvidge            |
| Space Weather                 | Achieve Initial Operating Capability for the Space Environment Impact System (SEIS) at the USAF Combat Climatology Center for use in battlespace M&S scenarios.         | <b>G</b> | (Q2) 3/31/2008          |                        | Kihn               |
| Space Weather                 | Release version 2 of VxOWare including improved support for on-demand services implemented through the Virtual Radiation Belt Observatory (ViRBO) framework.            | <b>G</b> | (Q3) 6/30/2008          |                        | Kihn               |
| Space Weather                 | Develop Application Programming Interface (API) extensions for ordering datasets via the Comprehensive Large-data Array Steward System (CLASS).                         | <b>G</b> | (Q3) 6/30/2008          |                        | Kihn               |
| Marine Transportation Systems | Develop new version of the NGDC World Magnetic Anomaly Map with 3-arc second resolution using all available satellite, marine, aero & observatory magnetic data.        | <b>G</b> | (Q3) 6/30/2008          |                        | Maus               |
| Space Weather                 | Release version 4.5 of the Space Physics Interactive Data Resource (SPIDR) software including support to the International Heliophysical Year (IHY) research community. | <b>G</b> | (Q4) 9/30/2007          |                        | Mabie              |
| Marine Transportation Systems | Implement an improved cloud-detection algorithm in real-time/static nighttime lights imagery products using 0.5-degree spatial resolution surface temperature grids.    | <b>G</b> | (Q4) 9/30/2007          |                        | Elvidge            |
| Marine Transportation Systems | Create station-level metadata records for 80% of all operating magnetic observatories providing data to NGDC in compliance with FGDC and emerging ISO standards.        | <b>G</b> | (Q4) 9/30/2007          |                        | Herzog             |
| Marine Transportation Systems | Train the Continuously Operating Reference Station - West (CORS-West) staff to run CORS data-management scripts and handle basic data collection errors & anomalies.    | <b>G</b> | (Q4) 9/30/2007          |                        | Coloma             |
| Marine Transportation Systems | Release version 2 of the degree-720 NGDC geomagnetic field model using a main magnetic field model plus contributions from the lithosphere and magnetosphere.           | <b>G</b> | (Q4) 9/30/2008          |                        | Maus               |

AOP → AOP milestone

**C** Complete  
**G** On-track

**Y** Watch Item  
**R** Issue



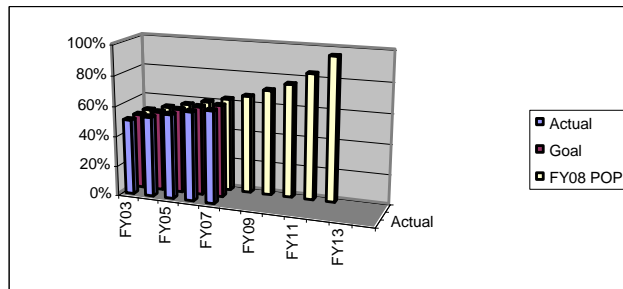
# FY07 Performance Measures Milestones & Performance Measures



## Performance Measures

### 1 - Percentage of archived SWx data available to the public on-line

|      | Actual | Goal | FY08 POP   |
|------|--------|------|------------|
| FY03 | 50%    | 50%  | <b>50%</b> |
| FY04 | 53%    | 53%  | 53%        |
| FY05 | 56%    | 56%  | 56%        |
| FY06 | 59%    | 59%  | 59%        |
| FY07 | 61%    | 61%  | 62%        |
| FY08 |        |      | <b>65%</b> |
| FY09 |        |      | 70%        |
| FY10 |        |      | 75%        |
| FY11 |        |      | 83%        |
| FY12 |        |      | <b>95%</b> |
| FY13 |        |      |            |
| FY14 |        |      |            |

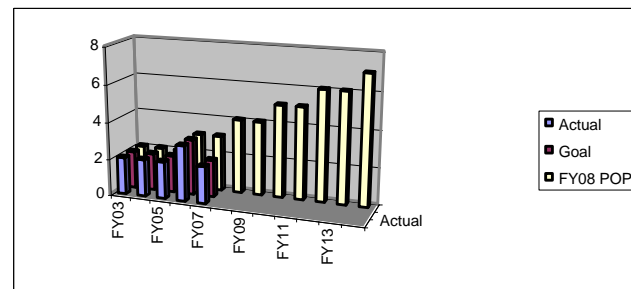


#### Current Month: Sep 07

| This Q  | Actual       | FY07   |
|---------|--------------|--------|
| Planned | This Q/Total | Target |
| 61      | 61%/61%      | 61%    |

### 2 - Improved retrospective products for understanding the space environment

|      | Actual | Goal     | FY08 POP |
|------|--------|----------|----------|
| FY03 | 2      | <b>2</b> | <b>2</b> |
| FY04 | 2      | 2        | 2        |
| FY05 | 2      | 2        | 2        |
| FY06 | 3      | 3        | 3        |
| FY07 | 2      | 2        | 3        |
| FY08 |        |          | <b>4</b> |
| FY09 |        |          | 4        |
| FY10 |        |          | 5        |
| FY11 |        |          | 5        |
| FY12 |        |          | <b>6</b> |
| FY13 |        |          | 6        |
| FY14 |        |          | 7        |



#### Current Month: Sep 07

| This Q  | Actual       | FY07   |
|---------|--------------|--------|
| Planned | This Q/Total | Target |
| 0       | 2/2          | 2      |



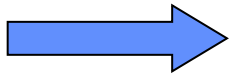
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## **Solar & Terrestrial Physics Division**



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# GPS/GNSS Workshop – 24-25 Oct

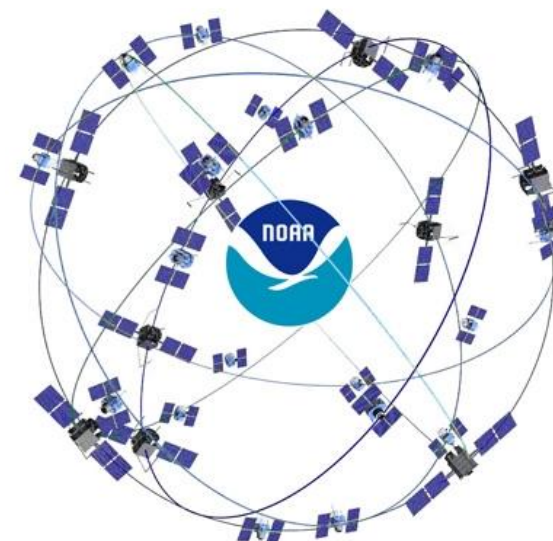
## Upcoming Events



**NGDC, SWPC, NGS, ESRL will host the workshop “Applications of GPS / GNSS in NOAA” at the DSRC on 24-25 Oct. This workshop will:**

- Identify NOAA applications of GPS/GNSS
  - Assess benefits to NOAA
  - Raise awareness and share information
  - Identify unmet needs or deficiencies
  - Consolidate info & make recommendations
- 26 registered attendees representing NOS, NWS, NESDIS & ESRL (currently)
  - 19 technical talks covering a broad range of topics concerning GNSS (currently)
  - Special thanks to Janet Brown, Erin Rowand, Ben Tuttle & Justin Mabie

<http://www.ngdc.noaa.gov/stp/gnssw2007/index.html>





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# Bradford W. Parkinson Award

## Andria L. Bilich



### Citation

***“For graduate student excellence in  
Global Navigation Satellite Systems”***



Dr Andria Bilich was awarded the Bradford W. Parkinson Award on 28 Sep at the GNSS-2007 meeting in Fort Worth, TX. Dr Bilich was also recently appointed to the *GPS Solutions* Editorial Board. Andria is an NGS employee within STP.



Bradford Parkinson  
“GPS Architect”



Dr. Bilich “learns” that she has  
just won the Parkinson Award



# NOAA Silver Medal Award

## Christopher D. Elvidge

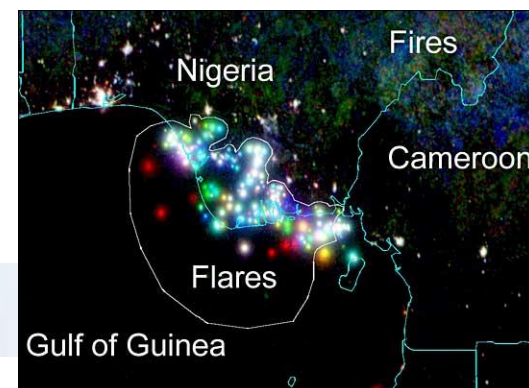


### Citation

***“For developing a technique to estimate current and historic rates of natural gas flaring through an effective use of satellite imagery data”***

Dr Chris Elvidge was awarded the NOAA Silver Medal Award for 2007. Chris continues to find innovative applications for the DMSP nighttime lights and is often cited in various public forums. During this past year he was cited in the National Public Radio's Climate Connections series in a story titled “Gas Flaring Disrupts Life in Oil-Producing Niger Delta”.

***Gold and Silver Medal Awards***







# **OUTLINE**

## **Solar & Terrestrial Physics Division**

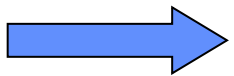


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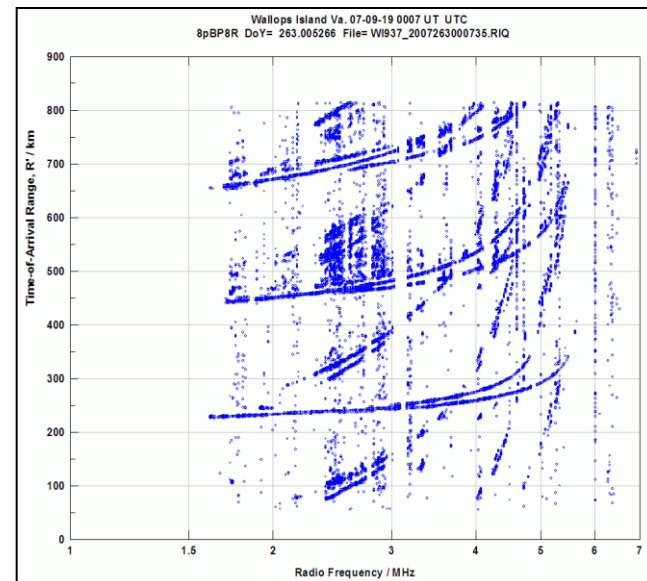
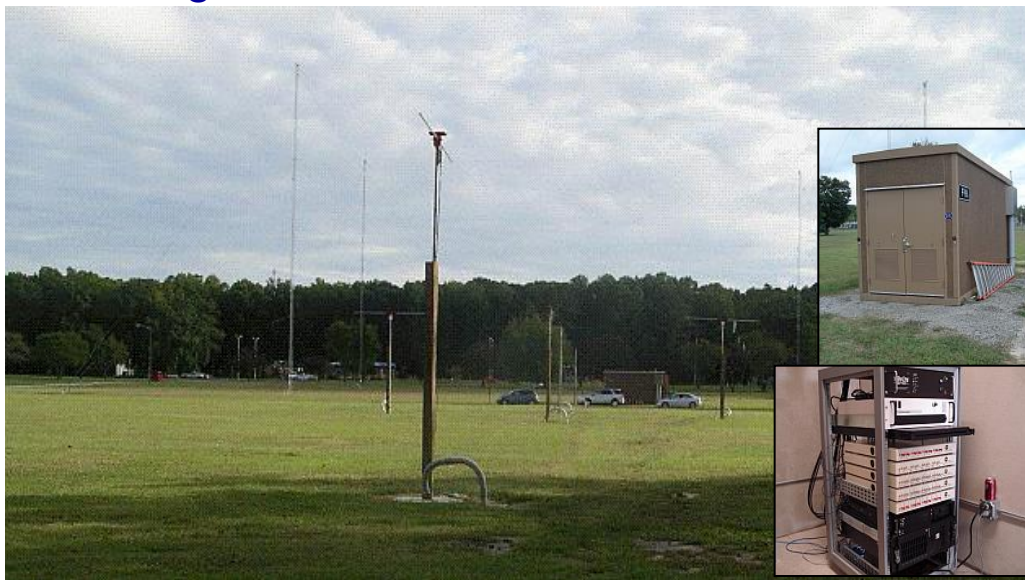
# Special Interest Item

## “First Light” for Wallops Dynasonde



**Background:** Terry Bullett & Rob Redmon recently tested a new-generation ionospheric sounder at Wallops Island, VA. This new sounder, or dynasonde, is based on technologies developed within NOAA during the 70's and 80's and now redesigned by AFRL with modern digital receivers and high-power solid-state electronics. Initial measurements taken side-by-side at Wallops with a conventional digisonde show a marked improvement in the radar echo patterns for better ionospheric specifications.

**Significance:** NGDC continues to be a global leader in ionospheric sounding technologies.





# Special Interest Item

## Decommissioning the Ramy Digisonde



**Background:** NGDC recently assisted the AF Weather Agency in dismantling the (previously) operational digital ionosonde at the Ramey AFB, PR which is now targeted for relocation to the USGS San Juan observatory near Cayey, PR. NGDC has significant expertise in constructing and operating ionosondes for the US Air Force at various locations world-wide. We are currently awaiting feedback from the NOAA Legal Office on a draft MOA with the USGS prior to reconstructing the replacement ionosonde at Cayey.

**Significance:** NGDC continues to improve its reputation as a leader in ionospheric sensing using ground-based ionosondes.



**Licensed NOAA affiliate, Justin Mabie, dismantles the transmit antenna at Ramy AFB, PR**



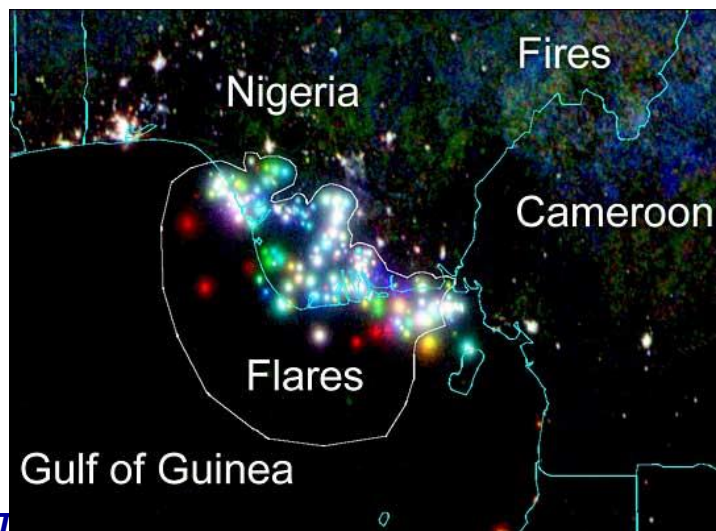


# Special Interest Item

## NGDC Finding Cited on NPR



Climate Connections



**Background:** NGDC recently produced the first globally consistent survey of natural gas flaring volumes using low-light imaging data from the DMSP satellites. These results were cited on National Public Radio's Climate Connections series in a story titled "Gas Flaring Disrupts Life in Oil-Producing Niger Delta". NGDC's results were also the basis of a story titled "Gas Flaring Culprits Named" in an oil and gas industry newsletter Energy Compass (v18, #30, pg 6, 27July07) published by the Energy Intelligence Group.

**Significance:** NOAA is recognized for its unbiased reporting. The Energy Compass article states that, "*NOAA is known for the rigor and independence of its scientific analysis*".

<http://www.npr.org/templates/story/story.php?storyId=12175714>)

(<http://www.energyintel.com/>)

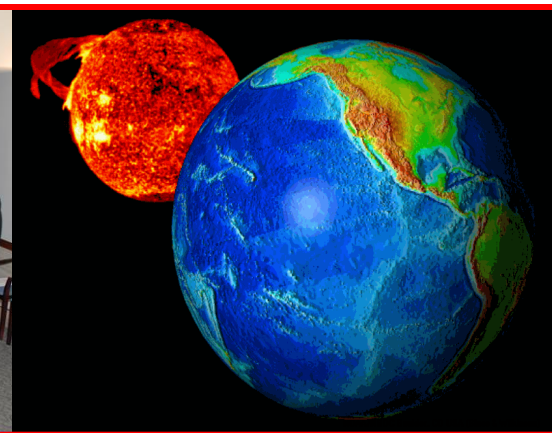
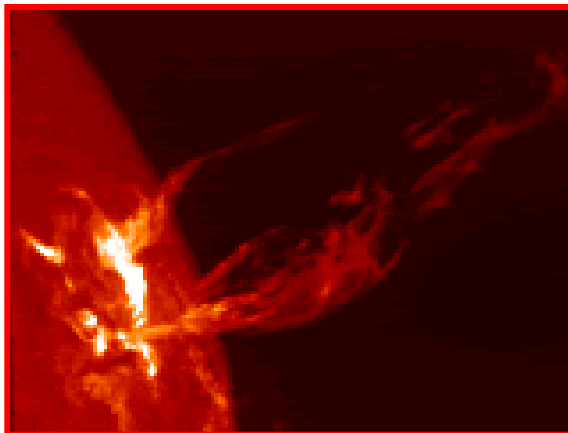






# Special Interest Item

## SWPC – NGDC Summit



Representatives from SWPC and NGDC met on 28 August to discuss areas of mutual interest. Conversation focused on the roles for the Data Interface WG (DIWG) and the Archive Interface WG (AIWG). The flow of the conversation suggested that the role of the DIWG was more at the policy level (what do we need to do) for interactions between the organizations whereas the AIWG would tend to concentrate on the implementation aspects (how we do it). A possible re-write of the existing action items is:

AI-3 - The Data Interface Working Group (DIWG) is responsible for developing requirements for data flowing between NGDC and SWPC.

AI-4 - The Archive Interface Working Group (AIWG) is responsible for developing implementation plans in the form of submission agreements for data flowing between NGDC and SWPC.





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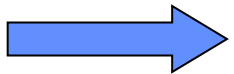
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**Accomplishments**

**Special Interest Items**



**Issues**

**STP – A Year in Review**



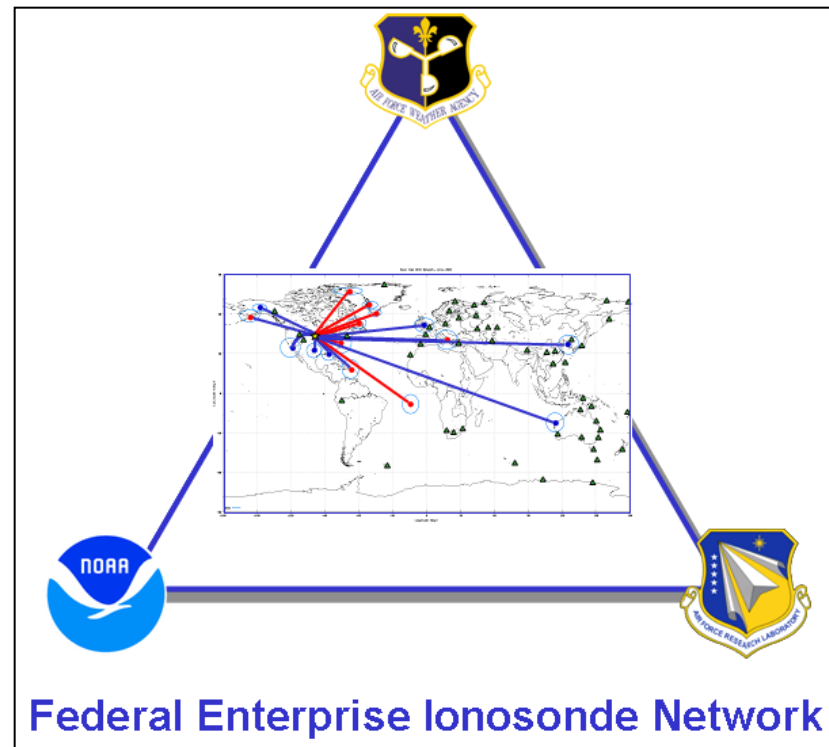
# Issues



## Federal Enterprise Ionosonde Network

**Background:** Some time ago, AFWA approached SWPC soliciting NOAA participation in a Federal Enterprise Ionosonde Network. The unstated goals for this enterprise were for NOAA to assume responsibility for the existing AF sites and to oversee the replacement program (NEXION). NOAA expressed some reluctance and AFWA decided to adopt a conventional acquisition approach through SMC.

**Status:** AFWA is still interested in having NGDC be responsible for the acquisition, processing and distribution of global ionosonde data and to advise SMC in the NEXION procurement. Still unclear is AFWA's position on the Cayey and Guam ionosonde deployments. NGDC should have some limited roll-over funding available for the ionosonde deployments.



**Recommendation:** None. STP is working with AFWA on a SOW for the mutually acceptable tasks. We are also attempting to clarify the future of Cayey and Guam.



# Issues

## Station-Level Metadata



**NOAA**

National Oceanic & Atmospheric Administration



**NCDC**

National Climatic Data Center

**Station MetaData**



**Background:** Ted Habermann and Dan Kowal coordinated an information session with NCDC (Jeff Arnfield & Andrea Fey) on available tools within the Multi-network Metadata System (MMS) for creating and maintaining station-level metadata records. STP is responsible for data from numerous geomagnetic observatories & ionosondes and is interested in tools that would allow data providers to enter & maintain their own station-level metadata. The Integrated Station Information System (ISIS) appears to be a useful portal for entering station metadata into the MMS. Dave Fischman will take the STP lead with EDS on application testing of the NCDC station metadata system.

**Recommendation:** None - Information only.



# **OUTLINE**

## **Solar & Terrestrial Physics Division**



**STP Program Overview**

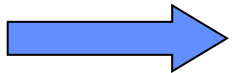
**Milestones & Performance Measures**

**Upcoming Events**

**Accomplishments**

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**STP – A Year in Review**



# FY07 Accomplishments

## STP – A Year in Review



### Significant Accomplishments for FY07:

- 60% increase (to 40) for continuous ionosonde station data now acquired and disseminated in NRT supporting the NOAA SWx program and USAF
- CORS-West attains operational status – exercised COOP plan during scheduled blackout of CORS-East
- Acquired and archived 1074 station-years of hourly and 1-min definitive INTERMAGNET data for the period 1991 to 2005
- Developed prototype WMS and WCS for 2000-2003 global nighttime-lights composites, lunar-cycle composites and nightly global mosaics
- Deployed SPIDR V4.0 at 2 new locations in Grahamstown and Kamchatka incorporating new features and enhanced data management tools
- Developed and demonstrated new CLASS APIs to provide M2M access to NOAA satellite datasets and information
- Demonstrated capability for continuous replication of operational GOES-13 SEM data from the SWPC

### STP Publications (CY07 YTD):

- Peer Reviewed Publications: 8 (CY06: 13)
- Conference Proceeding/Reports: 7 (CY06: 6)



# QUESTIONS?